

In the Claims:

Please note the claims remain as follows, noting also that this listing of claims technically replaces all prior versions, and prior listings of claims in the application:

Listing of Claims:

1. (Previously Presented) A method of producing a low molecular weight organic aglycon compound comprising following steps:

a) fermenting a microorganism cell in a suitable medium where the microorganism is capable of growing, which comprises a gene encoding a product involved in the biosynthesis pathway leading to a low molecular weight organic aglycon compound and a glycosyltransferase gene encoding a glycosyltransferase capable of glycosylating the produced aglycon, wherein the cell produces the aglycon and the corresponding glycosylated form of the aglycon;

b) deglycosylating the glycosylated form of the aglycon; and

c) recovering the aglycon compound; (i) wherein the low molecular weight organic aglycon compound has a molecular weight from 50 to 3000, and (ii) wherein the glycosyltransferase is a glycosyltransferase capable of conjugating a sugar to the aglycon compound; and

wherein the microorganism cell is a yeast cell; and

wherein the low molecular weight organic aglycon compound is vanillin.

2. (Original) The method of claim 1, wherein the microorganism cell with the glycosyltransferase during culture fermentation is capable of producing higher amounts of the glycosylated form of the aglycon as compared to the amounts of the corresponding aglycon produced by the same microorganism cell without the glycosyltransferase.

3. (Cancelled)

4. (Previously Presented) The method of claim 1, wherein the yeast cell is a yeast cell selected from the group consisting of *Saccharomyces* spp, *Saccharomyces cerevisiae*, and *Pichia* spp.

5. (Cancelled)

6. (Cancelled)

7. (Original) The method of claim 1, wherein the glycosyltransferase gene is a heterologous glycosyltransferase gene.

8. (Previously Presented) The method of claim 1, wherein the glycosyltransferase is an UDPG-glycosyltransferase or an UDPG-glucosyltransferase.

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Previously Presented) The method of claim 1, wherein the deglycosylating step b) of claim 1 takes place outside the growing cell following excretion or extraction of the glycosylated form of the aglycon produced in step a).

20. (Cancelled)

21. (Previously Presented) The method of claim 19, wherein the deglycosylating step b) of claim 1 is an-enzymatic process mediated by a beta-glucosidase.